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| PRE-APPEAL BRIEF REQUEST FOR REVIEW | Docket Number (Optional) M-15530-2D-2C US | |
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| I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on __January 27, 2006__ Signature _____ Typed or printed name __Edward C. Kwok__ | Application Number 10/722,694 | Filed 11/24/2003 |
|---|---|---|
| | First Named Inventor Sanjai Kohli | |
| | Art Unit 2634 | Examiner Wang, Ted M. |

Applicant requests review of the final rejection in the above-identified application. No amendments are being filed with this request.

This request is being filed with a notice of appeal.

The review is requested for the reason(s) stated on the attached sheet(s).
     Note: No more than five (5) pages may be provided.

I am the

☐ applicant/inventor.

☐ assignee of record of the entire interest.
See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed.
(Form PTO/SB/96)

☒ attorney or agent of record.    **33.938**
Registration number _____.

☐ attorney or agent acting under 37 CFR 1.34.

Registration number if acting under 37 CFR 1.34 _____

_____
Signature
**Edward C. Kwok**
_____
Typed or printed name
**(408) 392-9250**
_____
Telephone number
**January 27, 2006**
Date

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required.
Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | |
|---|---|
| Applicant(s): | S. Kohli; Chen, S.; Cahn, C.; Chansarkar, M.; Turetsky, G. |
| Assignee: | SiRF Technology, Inc. |
| Title: | Pseudo-Noise Correlator for GPS Spread-Spectrum Receiver |
| Serial No.: | 10/722,694     Filing Date:    November 24, 2003 |
| Examiner: | Wang, Ted M.     Group Art Unit: 2634 |
| Docket No.: | M-15530-2D-2C US |

San Jose, California
January 27, 2006

Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

## REASONS FOR REQUESTING PRE-APPEAL BRIEF REVIEW

Dear Sir:

These reasons support the Pre-Appeal Brief Request for Review filed in response to the Advisory Action mailed on December 28, 2005, maintaining the Examiner's rejection of Claims 21-32.

Claims 21-32 are pending.

In the Final Office Action of July 14, 2005, the Examiner repeated his rejection of Claim 21 under 35 U.S.C. § 102(b) as unpatentable over U.S. Patent 4,426,712 ("Gorski-Popiel"), stating:

> As shown in figures 2-4b, Gorski-Popiel discloses a system and a method for operating a GPS C/A code receiver comprising:

A plurality of channel means (column 2, lines 50-62), each comprising:

Means (282) for forming x multibit digital segment values per C/A code period, each multibit digital segment value representing a sequential code segments of a received composite of satellite signals (column 4, line 20-column 5, line 39); and

A plurality of correlating means for correlating each multibit digital segment value with n (=10 here) satellite specific set of m differently time delayed segments of C/A code modulation to form at least n time m time delay specific correction values (column 5, lines 35-60), where m is greater than the number of bits (8) in each multibit digital segment value.

The Examiner is mistaken because Claim 21 recites:

21.     A system for operating a GPS C/A code receiver comprising:

a plurality of channel means, each comprising:

means for forming x multibit digital segment values per C/A code period, x being an integer, each multibit digital segment value representing a sequential code segment of a received composite of satellite signals; and

a plurality of correlating means for correlating each multibit digital segment value with n satellite specific set of m different time delayed segments of C/A code, n and m being integers, to form at least n times m delay specific correlation values, <u>wherein m is greater than the number of bits in each multibit digital segment value.</u>

(emphasis added)

Applicants explained that Gorski-Popeil's system does not meet the above-underlined limitation, because Gorski-Popeil provides, for each satellite, 8 code position correlations (i.e., m = 8) for each 8 bits of quantized data (see, e.g., Gorski-Popiel, at col. 5, lines 35-52). That is, Gorski-Popeil teaches 1-bit digital segment values, whereas Claim 21 specifically requires "multibit digital segment values." Thus, the disagreement between Applicants' and

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the Examiner's positions is whether or not the limitation "multibit digital segment value" can be met by a "1-bit digital segment value."
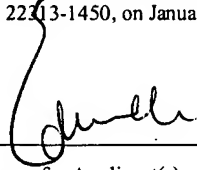
In the Advisory Action of December 28, 2005, the Examiner argues that:

> - In response to applicant's argument as described in the above paragraph, the examiner recited the limitation of claim 21, lines 4-5, "means for forming x multibit digital segment values per C/A code period, x being an integer." By definition, an "integer" number is a whole number, any of natural number, including all positive numbers, negative numbers, and zero. With x=1, surely it meets the claim 21 limitation as recited in above paragraph. Thus, for the explanation addressed in the above paragraph, the rejection with Gorski-Popiel's references is adequate.

Applicants respectfully submit that the Examiner's argument is irrelevant. The Examiner has confused the variables $x$ and $m$ recited in Claim 21. The Examiner merely showed that the variable $x$ can take on any integer value, including $x = 1$. However, in Claim 21, $x$ refers to the number of "multibit digital segment values", not to the number of bits $m$ in each "multibit digital segment value." The Examiner's argument has no relevance to the number of bits $m$ in a "multibit digital segment value." The limitation "multibit digital segment value" cannot be met by a 1-bit digital segment value, simply because the word "multibit" – a shorthand for "multiple-bit" -- means two or more bits. Thus, the Examiner's rejection is incorrect and must be reversed.
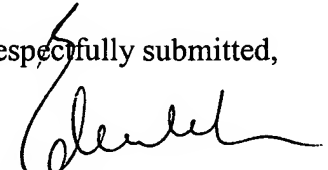
Serial No. 10/722,694

If the Examiner has any question regarding the above, the Examiner is respectfully requested to telephone the undersigned Attorney for Applicant at (408)-392-9250.

Respectfully submitted,

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